

DEC 00 1984

United States of America  
FEDERAL COMMUNICATIONS COMMISSION

FCC 351  
May 1984

File No.: BP-830826AA  
Call Sign: NEW

## AM BROADCAST STATION CONSTRUCTION PERMIT

## 1. Permittee:

SPRING ARBOR COLLEGE

2. Station location ..... : Spring Arbor, Michigan  
3. Transmitter location ..... : 1.6 miles W. of Horton on  
Cochran Road.  
Horton, Michigan

North Latitude ..... : 42° 09' 08"  
West Longitude ..... : 84° 32' 56"

4. Main studio location  
(Listed only if not at  
transmitter site or not within  
boundaries of principal community)

5. Remote control location ..... :

6. Transmitter ..... : Type accepted

(See Section 73.1660, 73.1665  
and 73.1670 of the Commission's  
Rules.)

7. Antenna and ground system: Vertical, guyed, shunt-excited, steel radiator of uniform cross-section.  
Overall height: 329 feet; Height of radiator: 326 feet; .51 wavelength. 120 buried copper  
wire radials 160 feet long. Theoretical efficiency is 302.5 mV/m/Km.

8. Obstruction marking and lighting specifications: FCC Form 715, paragraphs: 1, 3, 12 & 21.

## 9. Operating Assignment

Frequency ..... : 1540 Khz  
Power-Night ..... : ----  
Day ..... : 0.25 Kw (Non-directional)  
Hours of Operation ..... : Daytime  
10. Conditions ..... : Attached

11. Deadline for completion of construction and filing FCC Form 302: 12 months from date  
of grant (shown below)

Subject to the provisions of the Communications Act of 1934, as amended, treaties, and Commission Rules, and further subject to  
conditions set forth in this permit, authority is hereby granted to construct an AM broadcast station located and described as above.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission Rules.

This permit shall be forfeited if the station is not ready for operation within the time specified or within such further time as the  
Commission may allow unless completion of the station is prevented by causes not under the control of the permittee. See Section 1,  
509 of the Commissions Rules.

✓ This construction permit consists of this page and page(s) 2 & 3

FEDERAL  
COMMUNICATIONS  
COMMISSION



JUL 12 1984

Dated:

JUL 3 1984

ajs

GRANTED

12/12/84

Spring Arbor College  
Spring Arbor, Michigan  
BP-830826AA

Justification For a Non-Routine Grant

This application proposes to provide a first AM transmission service to Spring Arbor, Michigan.

The applicant indicates that the proposal would fail to provide a 25 mV/m signal over the business district of Spring Arbor. Consequently, a waiver of Section 73.24(j) of the Rules is requested.

The proposed facility places in excess of the required 5 mV/m over the entire community.

In addition, the applicant notes that there is no defined "central business district" in the village which is substantially residential in character and contains no heavy industry or unusually high levels of electrical noise. The proposed antenna tower is existing and in use for the college FM station WSAE(FM). Co-location of the facilities will enable the college to use a common tower, a common remote facility, and simplify the operation of the station.

Consequently, the requested waiver of 73.24(j) appears warranted.

THE AUTHORITY GRANTED IS SUBJECT TO THE FOLLOWING CONDITIONS:

Permittee shall install a type accepted transmitter or perform measurements made in accordance with Section 73.48 of the Rules and include such data in the station file.

The proposed antenna shall be excited with a symmetrical folded unipole feed, utilizing a minimum of three folds (no slant wire is authorized).

Before program tests are authorized, permittee shall submit sufficient data to establish that the inverse distance field at one mile is essentially 188 mV/m/KW, as proposed.

JUL 3 1984